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News Bulletin of The Entomological Society of Victoria Inc.

#### THE ENTOMOLOGICAL SOCIETY OF VICTORIA (Inc.)

#### MEMBERSHIP

Any person with an interest in entomology shall be eligible for Ordinary membership. Members of the Society include professional, amateur and student entomologists, all of whom receive the Society's News Bulletin, the Victorian Entomologist.

#### **OBJECTIVES**

The aims of the Society are:

- (a) to stimulate the scientific study and discussion of all aspects of entomology,
- (b) to gather, disseminate and record knowledge of all identifiable Australian insect species,
- (c) to compile a comprehensive list of all Victorian insect species.
- (d) to bring together in a congenial but scientific atmosphere all persons interested in entomology.

#### MEETINGS

The Society's meetings are held at the 'Discovery Centre', Lower Ground Floor, Museum Victoria, Carlton Gardens, Melway reference Map 43 K5 at 8 p.in. on the third Tuesday of even months, with the exception of the December meeting which is held on the second Tuesday. Lectures by guest speakers or members are a feature of many meetings at which there is ample opportunity for informal discussion between members with similar interests. Forums are also conducted by members on their own particular interest so that others may participate in discussions.

#### SUBSCRIPTIONS (2008)

Ordinary Member \$30 (overseas members \$32)

Country Member \$26 (Over 100 km from GPO Mclbourne)

Student Member \$18 Electronic (only) \$20

Associate Member \$7 (No News Bulletin)

Institution \$35 (overseas Institutions \$40)

Associate Members, resident at the same address as, and being immediate relatives of an ordinary Member, do not automatically receive the Society's publications but in all other respects rank as ordinary Members.

LIFE MEMBERS: P. Carwardine, Dr. R. Field, D. Holmes, Dr. T. New, Dr. K. Walker.

Cover design by Alan Hyman.

Cover illustration: The pale Sun Moth, *Synemon selene* Klug, is an endangered species restricted to perennial grassland dominated by *Austrodanthonia* in Western Victoria. It is now extinct in SA, and was presumed extinct in Vic. until its rediscovery, in February 1991, by the late Frank Noelker and Fabian Douglas. The Victorian Populations are parthenogenetic with all specimens comprising females, a most unusual trait in the Castniidae. Illustration by Michael F, Braby.

# Minutes of the General Meeting 11 December 2007

Present:

P. Carwardine, S. Curle, V. Curle, P. Marriott, D. Stewart, P. Lillywhite,

Guest:

Graham Brown

Apologies:

D. Dobrosak

#### Correspondence:

No correspondence received.

Treasurers Report: No report available

Editors report:

No report available.

General Business:

#### Peter Carwardine

Peter brought with him a selection of photographs from a colleagues recent trip to China. Some were not too clear but others we tried to identify as we ran through Peter's presentation.

Of those that Peter showed were some nice images of *Dauaus Chrysipus*, a selection of unknown swallowtails (mysteriously gathered around a purple basket), and a nice image of a male *Actias Seleue*.

#### Peter Marriott

Peter gave us all further presentation and insight into the progression of his studies of Ododiphthera eucalypti; more to follow soon. Watch this space ③.

Peter also ran through the checklist proposed meeting in August.

#### Graham Brown

We had a visit from Graham Brown from the Northern Territories. Graham reported that he is currently 'blissfully retired doing entomology'. Graham has been working ion a CD publication in html format, of insects of Northern Queensland. It will have approximately 200 initial. Graham explained that for completeness, some creature groups have had to be added, though technically they do not occur in the region. These are the Stoneflies, Alder Fly and Scorpion Flies. I understand these all need mountain streams.

A selection of refreshments followed the meeting that everyone had contributed to.

# Next Meetings:

If you are planning to attend any of these meetings; please refer to the website for any last minute amendments.

2008:			
Montli	Date	Planned event	
January:		No meeting	
February:	19 <sup>th</sup>	Members meeting	Tentative- Eltham Copper : Andrea Canzano
March:	18 <sup>th</sup>	Council meeting	
April:	15 <sup>th</sup>	AGM Members meeting	Includes presentation from Melanie Birtchnell - Drunken Honeybees
May:	20 <sup>th</sup>	Council meeting	
June:	17 <sup>th</sup>	Members meeting	Nature Illustration - insects that pollinate plants.
July:	15 <sup>th</sup>	Council meeting	
August:	19 <sup>th</sup>	Members meeting	Proposed forum for data recording
September:	16 <sup>th</sup>	Council meeting	
October:	21st	Members excursion	Excursion. Date may change slightly allowing for excursion. Potential visit to AQIS at Tullamarine.
November:	18 <sup>th</sup>	Council meeting	
December:	9th	Members meeting	Please note, December's meeting date is 2 <sup>nd</sup> Tuesday of December to try and avoid Christmas celebrations.

Meeting closed at 21:19

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# Kurrajong leaf-tier *Dichocrocis clytusalis* (Walker) (Lepidoptera: Pyralidae) in north-east Victoria

Ian Faithfull 2 Jacana Drive, Carrum Downs, Victoria, 3201

The gregarious pale green larvae of *Dictocrocis clytusalis* (Walker), the kurrajong leaf-tier (Carne *et al.* 1987), bag moth (Jones and Elliot 1986), leaf roller (McKeown 1945) or leaf-web moth (Froggatt 1905) join living leaves of their host plants together with silk, forming large bird nest-like masses in which they shelter and feed (Froggatt 1905, McKeown 1945, Common 1990, Forster 1993), and from which they emerge at night to feed (Jones and Elliot 1986, McMaugh 2000). Various *Brachychiton* Schott & Endl. species (Sterculiaceae: bottle-trees) are attacked, including the flame tree *B. accrifolius* (A. Cunn. ex G. Don) Macarthur & C.Moore and "especially" (Common 1990 p.357) the kurrajong *B. populneus* (Scott & Endl.) R.Br. Forster (1993) listed the known food plants and described shelter construction and larval feeding. The mature larva webs the sides of a leaf together and pupates in the chamber within the leaf (Froggatt 1905), within the larger shelter (illustrated in Froggatt 1905 p. 230). Common (1990 fig. 34.7) and Froggatt (1905) illustrated the adult, a moth with a wingspan of about 25 mm and pale orange (McMaugh 2000 and the Killawarra specimens) or bright yellow (Froggatt 1905, Elliott *et al.* 1998) wings with black wavy bands. Froggatt (1905) provided a brief description of the larva.

In early 2001 several of these leaf 'nests' were observed by W.J. Faithfull in the upper branches of a cultivated 5 m tall *B. populneus* growing in a garden at 96 Glenmaree Drive, Killawarra, north-east Victoria (c. 10 km northwest of Wangaratta). One shelter (Figure 1), containing at least one pupa, was collected on 11 March 2001. By 18 April three adults had emerged. This compares with Froggatt's (1905) report of emergence in February, three weeks after pupation, of material collected at Berowra, north of Sydney, New South Wales, and Forster's (1993) records of emergence "about one month" after pupation of material collected at Didcot, Queensland. Inhabited leaf shelters were seen on the same tree at Killawarra in the summer of 2002 but did not occur in subsequent years to 2006. Inspections of a few, widely scattered kurrajongs growing along roadsides in the immediate district during this period also failed to reveal the moth's presence.

*D. clytusalis* is a minor pest of *Brachycliton* spp. (Elliott *et al.* 1998, McMaugh 2000). According to Common (1990 pp.356-357) it has a "wide distribution in north-western Australia, the Northern Territory and eastern Australia as far south as southern New South Wales". Occurrence of the species in Victoria does not appear to have been previously recorded in the literature.

Walker described the species in 1859 as an Astura. It has previously been referred to as Notarcha clytalis Walker by Froggatt (1905), Sylepta clytalis Walker by McKeown (1945), S. clytusalis e.g. by Gay (1955) and Jones and Elliot (1986), Syllepte clytusalis (Walker) by Carne et al. (1987) and Lygropia

elytusalis (Walker) by Common (1990), Forster (1993) and Elliott et al. (1998). Nielsen et al. (1996) formed the new combination Dichocrocis elytusalis.

Evidence of the distribution of the moth can easily be gathered by looking for the conspicuous shelters. In southern Australia, the kurrajong has been widely planted as a shade and fodder tree for livestock, mainly in inland areas (Spencer 1997). In Victoria it has a wide natural distribution in the north-east and East Gippsland (Short 1996) although determination of the natural distribution is complicated because of naturalisation from planted trees (Walsh & Stajsic 2007), particularly in northeast Victoria. It and other *Brachychiton* spp. are occasionally grown as ornamentals in southern Victoria: Spencer (1997) provided details of the locations of significant trees. *B. populneus* has naturalised in south-west Western Australia, where it invades urban bushland (Buist *et al.* 2000). Absence of *D. clytusalis* in that area may be a contributing factor to its weediness.

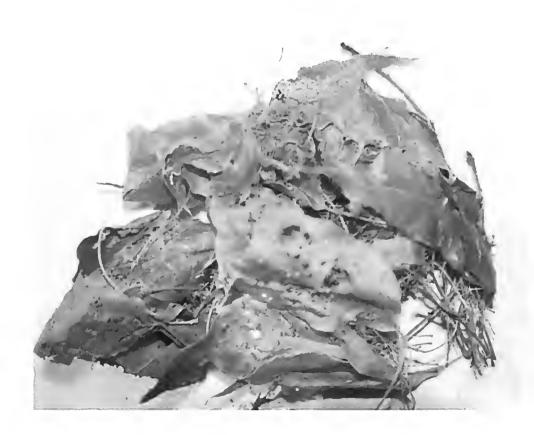
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Walsh, N.G & Stajsic, V. (2007) A Ceusus of the Vascular Plants of Victoria. Eighth Ed., Royal Botanic Gardens, Melbourne.

Figure 1. Dried specimen of larval shelter of the kurrajong leaf-tier *Dichocrocis clytusalis*, somewhat laterally compressed.



# Australian Journal of Entomology 46 (3) 2007

The Australian Entomological Society publishes the *Australian Journal of Entomology* quarterly. The Entomological Society of Victoria is an affiliated society and will, in future, publish the contents of the Journal for the wider interest of its members.

Peter H Raven & David K Yeates: Australian biodiversity: threats for the present, opportunities for the future

#### **ECOLOGY**

Sophia Dimitriadis & Peter S Cranston: From the mountains to the sea: assemblage structure and dynamics in Chironomidae (Insecta: Diptera) in the Clyde River estuarine gradient, New South Wales, south-eastern Australia

#### SYSTEMATICS

Anneke A Veenstra-Quah, Josephine Milne & Peter Kolesik: Taxonomy and biology of two new species of gall midge (Diptera: Cecidomyiidae) infesting Sarcocornia quinqueflora (Chenopodiaceae)in Australian salt marshes

#### **EVOLUTIONARY ENTOMOLOGY**

Michelle L Larsen & Gimme H Walter: Intraspecific variation within *Orosius argentatus* Evans (Hemiptera: Cicadellidae): colour polymorphisms, morphometric analyses and host associations

#### PEST MANAGEMENT

Mohamed N Sallam, Darren R Peck, Catherine A McAvoy & David A Donald: Pheromone trapping of the sugarcane weevil borer, *Rhabdoscelus obscurus* (Boisduval) (Coleoptera: Curculionidae): an evaluation of trap design and placement in the field

Olivia L Kvedaras, Alice P Del Socorro & Peter C Gregg: Effects of phenylacetaldehyde and (Z)-3-hexenyl acetate on male response to synthetic sex pheromone in *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae)

Hainan Gu, Gary P Fitt & Geoff H Baker: Invertebrate pests of canola and their management in Australia; a review

Mofakhar S Hossain, David G Williams, Mamun A B M Hossain & Sorn Norng: Comparison of trap designs for use with aggregation pheromone and synthetic co-attractant in a user-friendly attract and kill system to control *Carpophilus* spp. (Coleoptera: Nitidulidae)

#### INSECT HUSBANDRY

Rob Manning, April Rutkay, Linda Eaton & Bernard Dell: Lipid-enhanced pollen and lipid-reduced flour diets and their effect on the longevity of honey bees (Apis mellifera L.)

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#### CONTRIBUTIONS TO THE VICTORIAN ENTOMOLOGIST

The Society welcomes contributions of articles, papers or notes pertaining to any aspect of entomology for publication in this Bulletin. Contributions are not restricted to members but are invited from all who have an interest. Material submitted should be responsible and original. The Editor reserves the right to have articles refereed. Statements and opinions expressed are the responsibility of the respective authors and do not necessarily reflect the policies of the Society.

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Contributions may be typed on A4 paper or sent to the Hon. editor on an IBM formatted disk in *Microsoft Word for Windows* with an enclosed hard copy. The main text of the news bulletin is prepared in 8 point, *Book Antiqua* font (please do not use fixed point paragraph spacing). Contributions may *preferably* be E-mailed to Internet address: suturalis@vahoo.com

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# **DIARY OF COMING EVENTS**

Tuesday February 19<sup>th</sup> Tentative- Eltham Copper : Andrea Canzano

> Tuesday March 18th Council Meeting

Tuesday April 15<sup>th</sup> AGM Members meeting Includes presentation from Melanie Birtchnell – Drunken Honeybees

Scientific names contained in this document are *not* intended for permanent scientific record, and are not published for the purposes of nomenclature within the meaning of the *International Code of Zoological Nomenclature*, Article 8(b). Contributions may be refereed, and authors alone are responsible for the views expressed.

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G LOLD